

User Guide

Handpallet weighter WSP 2200



EU-KONFORMITÄT SERKLÄRUNG
EU DECLARATION OF CONFIRMITY
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 EU-OVERENSSTEMMELSESERKLÆRING

Wir erklären hiermit unter alleiniger Verantwortung, dass das Produkt,
We hereby declare and assume sole responsible for the product,
 Nous déclarons et assumer seul responsable pour le produit,
 Vi påtager os hermed det fulde ansvar for, at produktet,

Typ: Type: Type: Type:	WSP2200
Bezeichnung: Description: Description: Betegnelse:	Palettenhubwagen mit Waage
Herstellingsnummer: Serial number: Numéro de série: Serienummer:	xxxxxx

auf welches sich diese Erklärung bezieht, mit den folgenden EU-Richtlinien übereinstimmt:
complies with the EU directives hereinafter:
correspond au exigences des directives CE suivantes:
 som denne erklæring omhandler, er i overensstemmelse med følgende EU-direktiver:

EU Directive	Standards
2006/42/EG machinery directive	EN ISO 3691-5:2014-07
2004/108/EG emc directive	DIN EN 6100-3-3:2008, DIN EN 6100-3-2:2006/A2:2009
2006/95/EG low voltage directive	EN 60355-1:-2010, EN 60335-2-29:2002A1+A2

Datum

Date 07. Dezember 2016
 Date
 Dato

Ort

Place 21129 Hamburg, Germany
 Lieu
 Sted


 Klaus-Peter Zander GmbH
 Markus Bogusch

1 Basic usage informations

1.1 Correct usage

Handpallet weighter KPZ should be used mainly for measurement reasons. As a non-automatic measurement device, is providing the values of weighted items. It can be used on the smooth and flat surface. The goods are weighted on the pallet. Centre of gravity should be placed in the middle. After reaching the stable weighting value the weight can be read.

1.2 Incorrect usage

Load cells and scale can be damaged because of the influence of strong plunk, overloading's or point overloading. It is not recommended to leave out constant the goods on the Handpallet. Please avoid transporting the Handpallet with any goods on it or working under extreme conditions. Through load capacity we understand equally placed weight not point overloading. The scale cannot be used for any dynamic weighting. Any sudden change on the scale example: fill or empty the liquid from the container through filter compensation can give false value.

Any construction changes (extensions) are not allowed.

1.3 Warranty

Not recognized subject of warranty:

- Damage caused by not following the user guide
- Damage cause by incorrect and excessive usage
- Damage cause by repairs, or changes not authorized by K-PZ or its dealer.
- Usage
- Mechanic breakdowns
- Damage cause by dump and other conditions
- Damages caused by usage of other than recommended equipment.

Warranty applies to only these elements which are used by normal development and recommended by the manufacturer yearly inspection which shows its material and process foulness.

2 Basic safety guidelines

2.1 Following the guidelines

Please read this user guide very carefully and follow the procedures saved in this document.

2.2 Staff

Handling and protection service should not be made by not properly prepared staff without authorization. Scale should be handled by trained staff.

2.3 Basic safety guidelines

- Make sure that device is in good technical condition.
- Do not use device for transporting people or as a scooter.
- Avoid contact with dangerous elements of scale (load, fork and lift mechanism)
- During work choosing arm should be placed in neutral position.
- Please keep safe distances from dangerous slopes edges, holes, loading ramp and platforms
- Please keep safe driving on unstable loading ramps and platforms. Collapse from loading ramp or platform can cause serious injurious or even death.
- Any transported goods should be protected.
- Never overstep device capacity shown on the identification label.
- Ride up directly using both forks towards
- Avoid driving on slopes and holes. Applying safety handbrake is possible only through quick lower the weight.
- When driving on slopes and **holes**, weight always should be faced slopes. It is not aloud driving slantwise or turns round.
- Please follow capacity of loading ramps and lofts.
- During longer route the goods should be pulled, not pushed (it provides better visibility and improves driving device!).
- Observe the height of goods in reference to height of doorways.
- Device should be placed on flat surface keeping the fork with thrill in upright position.

3 Unpacking, shipment and storing

3.1 Inspection during collection

During scale collection, please check packaging and scale for any potential outside and visible damages. In situation of discovering any damages please contact by written your supplier.

3.2 Unpacking

The scale is packed and delivered on the pallet. The loading and unloading device from the truck should be preceded using correct equipment.

After the unloading remove safety labels, unpack and take off the device from the pallet. Delivered scale is fully functional and calibrated. The scale does not require any further calibration.

Parcel contents

- 1) User Guide
- 2) Scale KPZ 71
- 3) Charge

3.3 Shipment

Please do not throw away the packaging and pallet on which you have received the scale. In case of further shipment please use original package.

4. Arrangement and usage requirements

4.1 Arrangement

To obtain the most accurate weighted value, the scale should set up only in places which pass the following conditions:

- Surface must be flat and vertical. Slope cannot be bigger than 2°.
- Surface must be stable and not exposed for vibrations.
- Do not expose for long effect of sun.
- Do not use it in places where corrosion gases can be found.
- Free of dust environment
- Temperature environment from -10° C to 40°C.
- Average moistness of air from 40 to 70% (Do not use near the atomizing humidifier!)
- Do not use near other electronic devices, because it can course inference.
- Do not use near the heating devices and outlet air-conditioning equipment, to not exposure the device for big and quick temperature fluctuation.

5. Operating KPZ 71

5.1 Daily operating

Before using, please check the device for its working condition, is it ready for handling and free of visible damages, specifically on wheels and forks.

Please check the battery and follow electronic and charger guidelines.

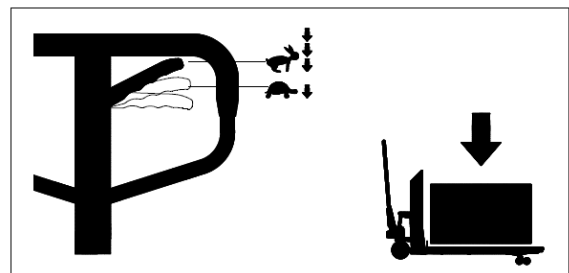
While handling the device not a lot of effort should require. However, if noticing any doubts would occurred, please contact the manufacturer or dedicated dealer.

5.2 Operating the handpallet

KPZ scales are endowed with easy operating mechanism to **weightlifting**, neutrality and to **lower the work lift**.

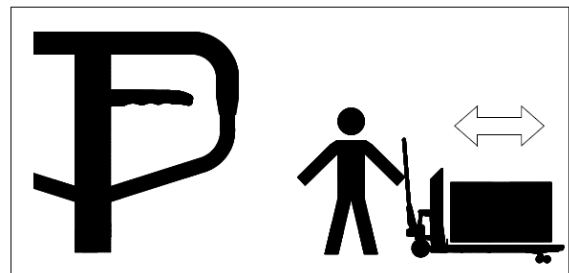
Lower the work lift

Choosing arm pull up and hold. Forks will lower down. Realize the choosing arm, which automatically return to neutral position.



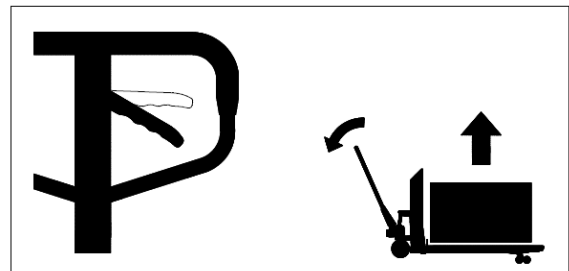
Neutrality

Pull up choosing arm reaching the centre position. Choke pump and thrill are switched off.



Weightlifting

Lower down the choosing arm. Using drawbar to pump to reach required height.



5.3 Engine warming-up

It is recommended to begin weighting after 10 minutes from the switching on the device.

5.4 Self-acting display test

After switch on the scale, automatically will begin self-acting display test. Visible counting from 99999 to 000000. Please pay attention to all signs and symbols on the display which are showing up on full screen, to avoid receiving an incorrect values. After displaying zero the scale is ready to use. If scale is not showing „0“ then please press →0← to resetting the scale.

5.5 Locating the load

The goods should be always placed on the pallet, on the pallet with net or in similar containers in central point of forks.

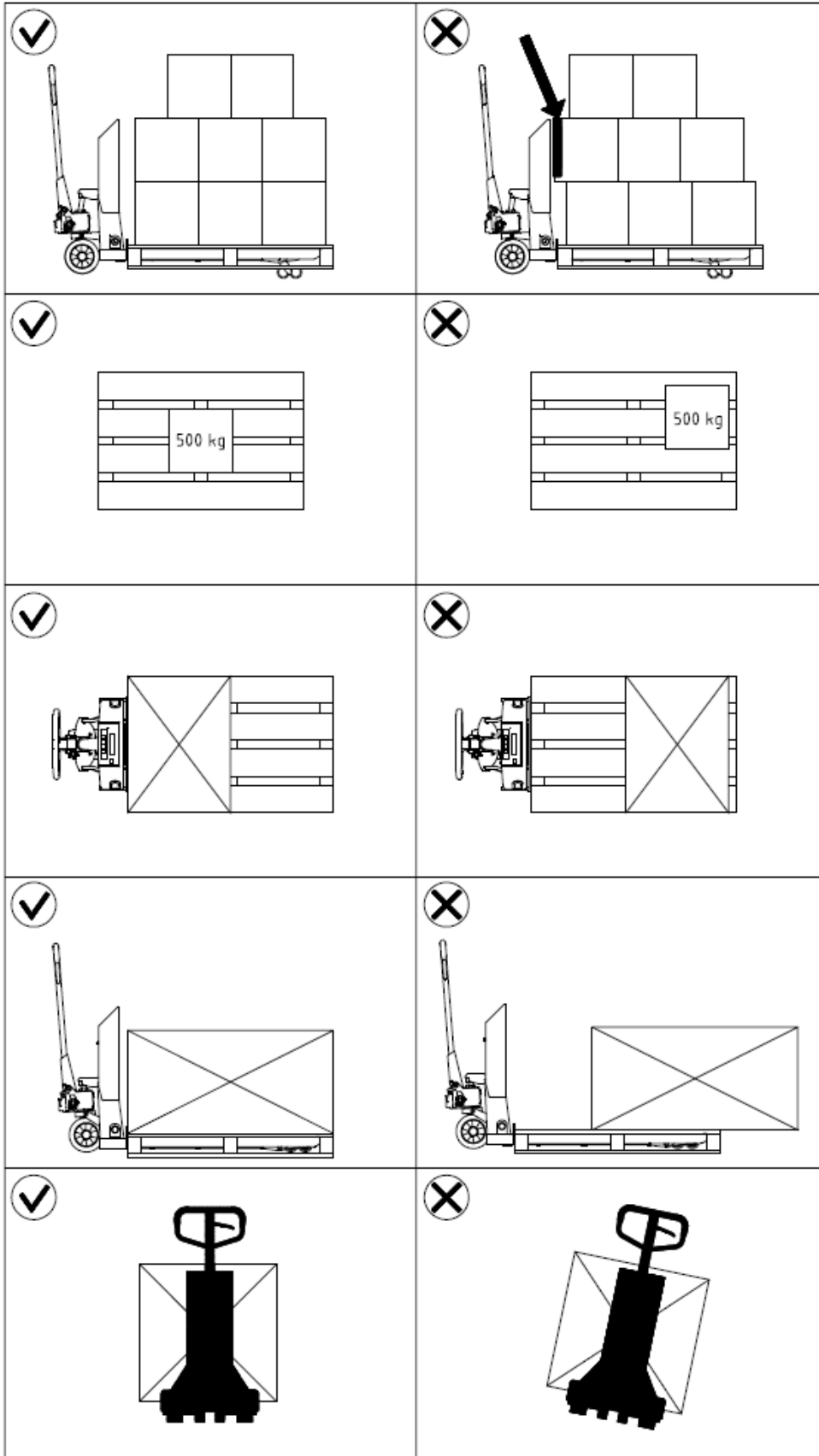
The load cannot sticking out of the pallet. Maximum capacity cannot be overloaded.

Sudden, strong impingements can damage load cells of the scale. Avoiding strong impingements extend longevity of load cells. To reassure long-lasting weighting values is not recommended to leave the load on the forks for longer periods (example: overnight), because it can influence on effectiveness load cells.

5.6 Reasons for potential incorrect weighting values:

The scale can show an incorrect weighting values when:

- Under the scale or between the forks is an item or some contamination.
- After switching on, during functional test the scale is/ or will be loaded.
- Weighting goods are placed just right next to the control panel box, on the ground or lean on other subjects.
- Incorrect charging.
- Cable connection is break down between control panel and load cells



6. Power Supply

6.1 Accumulator supply

Scale on the handpallet KPZ is delivered with the charger. Delivered charger supply the energy to built-in accumulator.

Charging: Protect the handpallet from moving. When the display is turned off you may proceed and connect the charger to on-site power supply (230V), other end plug in to the socket located in the front of the device.

When the charger cable is unplugged, the diode is showing CHARGE.

Green – accumulator charge up to 75%

Red – charging is still in process

After completing the charging process then automatically turn into safe mode. For full charging effect, it should be preceded for 18 hours. Charger must be disconnected before activating the handpallet.

Charger:

Always use original KPZ charging device. The use of any other device may cause considerable damage to the electronics.

Charger should be checked before using for any damages. If the charging device is damaged by accident or if any other defect exists, please check the output. If the output is affected in any way, immediately order a new KPZ charging device. Any damage to the charging device/power pack may result in a reduction or failure of the unit, resulting in most cases damage to the scale.

Accumulator:

It is recommended to charge the accumulator every day over night. This way will be guaranteed correct charge level indicator through the day. Charging system with limited voltage strain protects from overcharging the accumulator. Low voltage strain information appears on the display. Accumulator must be charged straight away. If charging level is too low, scale is switching it self automatically off or it is impossible to switch it back on.

The charge jack is at the front below the indicator on the right side.

From left side next to safety catch is located switch button to switch on and switch off the display and the printer if it is installed.

7 Maintenance, storage and carrying

7.1 Maintenance

For better maintenance never use strong care products no strong detergents should be used (solvents etc.)

Scale should be carried by soft and damp cloth and/or soft detergents. No fluids can enter inside of the scale.

7.2 Storage

Accumulator should be fully charged. It should be checked is there no load on the scale. After finishing work the scale should be cleaned and stored in dry and free of dust environment. From time to time accumulator should be charge, because its is discharging while storage.

7.3 Carrying

Routine technical inspection should be carried for its work and safety only by qualified staff.

Part Exchange of the equipment should be made by manufacturer or its authorized dealer. Original elements only should be applied.

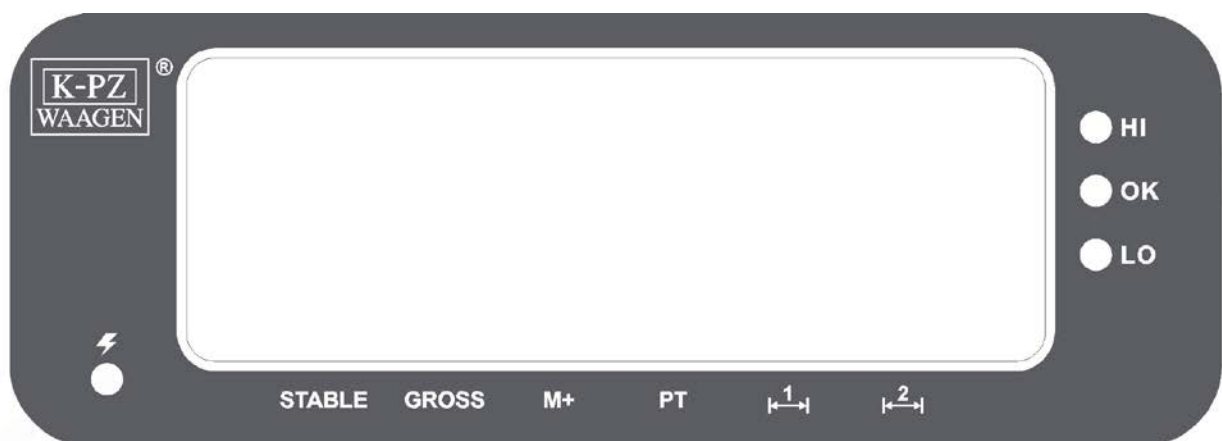
7.4 Inspection

It is highly recommended to proceed with routine technical inspections using only legal weight. It is recommended to proceed an independent inspection. Manufacturer recommends to carry technical inspection at least once a year.

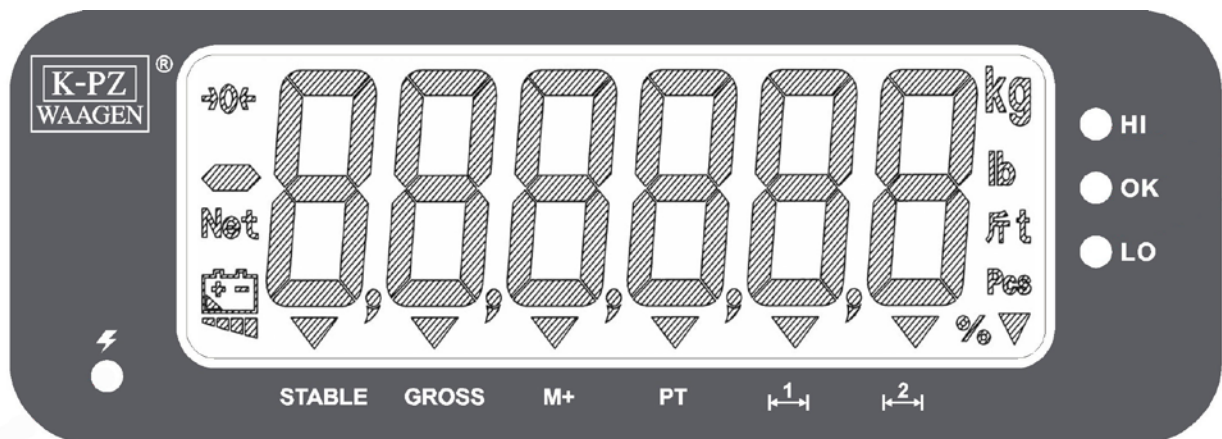
User Guide


8.0 Indicator

8.1 Frontview of Indicator



8.2 Indicator



- 0← : Zero indication
- Net : Net weight indication
-  : Low battery indication
- ▶ **STABLE** : Stable indication
- ▶ **GROSS** : Gross weight indication
- ▶ **M+** : Accumulation mode indication
- ▶ **PT** : Pretare indication
- ▶ |←¹→| : Range indication (for multirange)
- kg** : kg unit
- Pcs** : peace unit, counting mode

Set point indication:

- HI** : High limit value (2nd Value)
- OK** : Ok Value / Between HIGH and LOW (2nd and 1st Value)
- LO** : Low limit value (1st Value)

8.3 Keypad




Key	Function	Hold for 1 sec.
	Printout / data output (Option)	Communication settings
Σ	Totalizing	
	Modus selection / Function	/
$\frac{NET}{B/G}$	Switching between net and gross weight (net mode)	
UNIT	switching units	/
	Switch between weight / unit weight (piece counting mode)	
	Tare	1. Backlight 2. Switch on zero setting 3. Gravitation value
	Pretare	
	Zero	battery voltage


ON/OFF	Switch on the front housing. On / Off switching
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8.4 Operating of the indicator


Zero setting

If the scale does not show 0.0 with no load, the display indication will be set to zero by pressing the  button. This is up to 2% of the Max capacity possible.


Tare

Should the scale only display the weight of contents of a container, place an empty container on the scale and press the  button. Now the displays indicate 0.0. NET symbol appears on the display. After filling the contents only the ingredients are displayed.

- Multitare is possible.
- Partial Tare removal is possible.

Clear Tare value: Remove all weight from the platform and press the  button. On the display the symbol ▼ GROSS (gross) appears.

Pretare

Press the  key when there is no weight on the scale. Enter the weight using the cursor function and confirm with the Enter key:


 ⇒ ▲ (0~9)  ⇒ ▼ (9~0)  ⇒ ▶  ⇒ ◀  ⇒ ↵

Function

Switching between the operating mode:

Weighing, piece counting reference mode, target weight mode, addition mode, hold mode (see section 9).

Gross/Net switching

To indicate the combined weight of the container and the content, press the  button. Now the symbol ▼ **GROSS** (gross) is displayed and the total weight is displayed. Press the button again and the weight of the contents and the **NET** symbol appears on the display again.

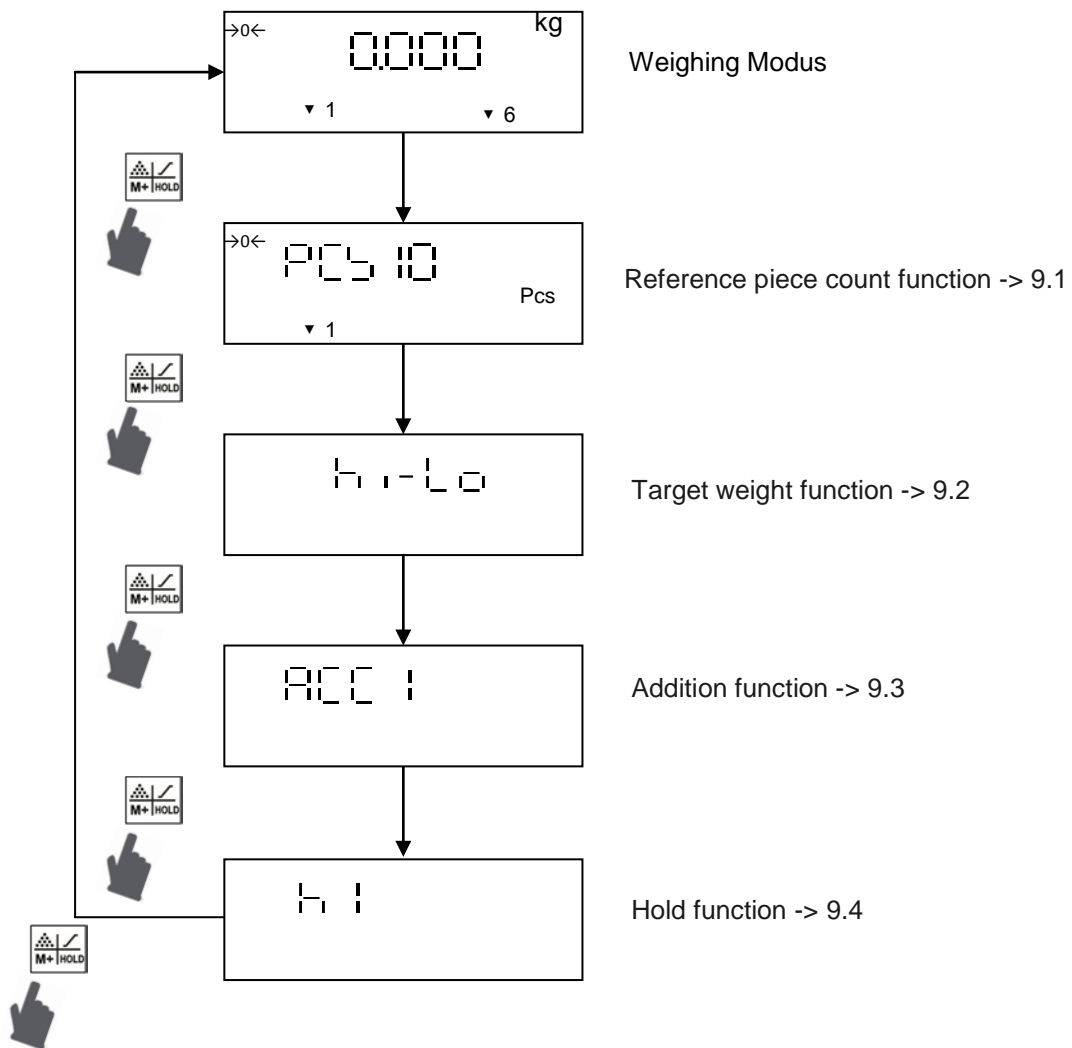
UNIT

Option. Not in use.

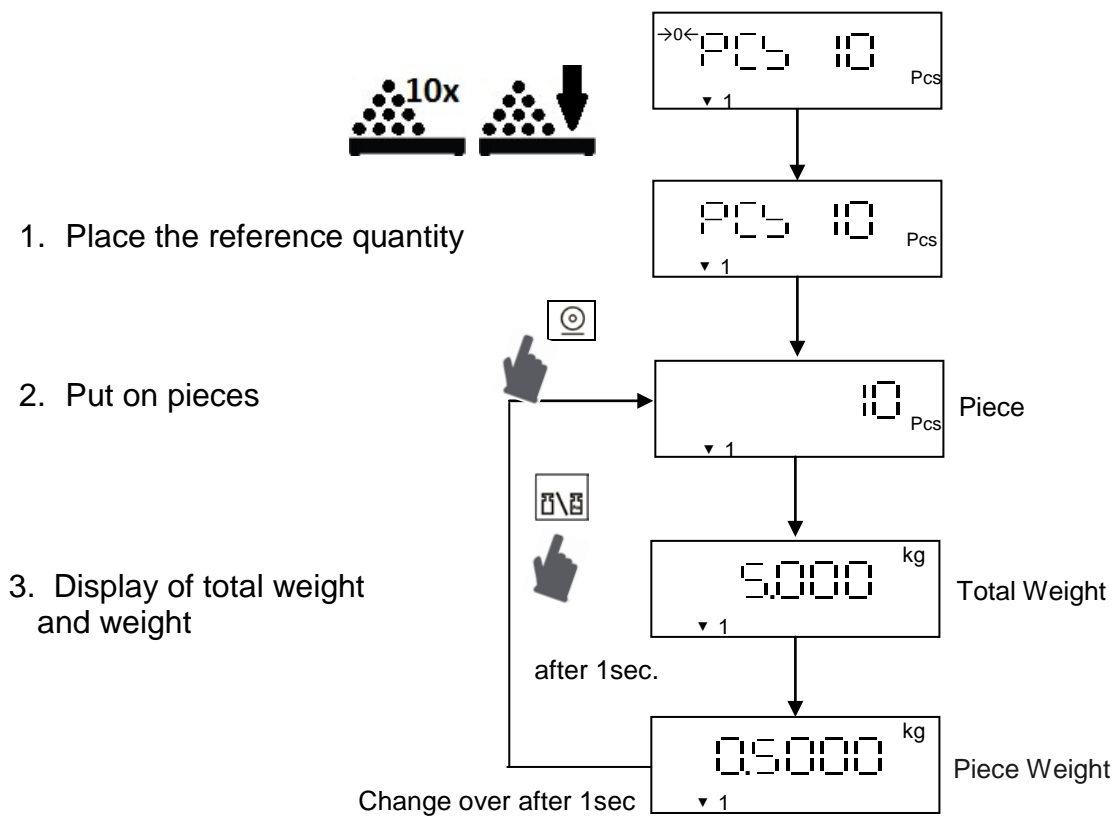
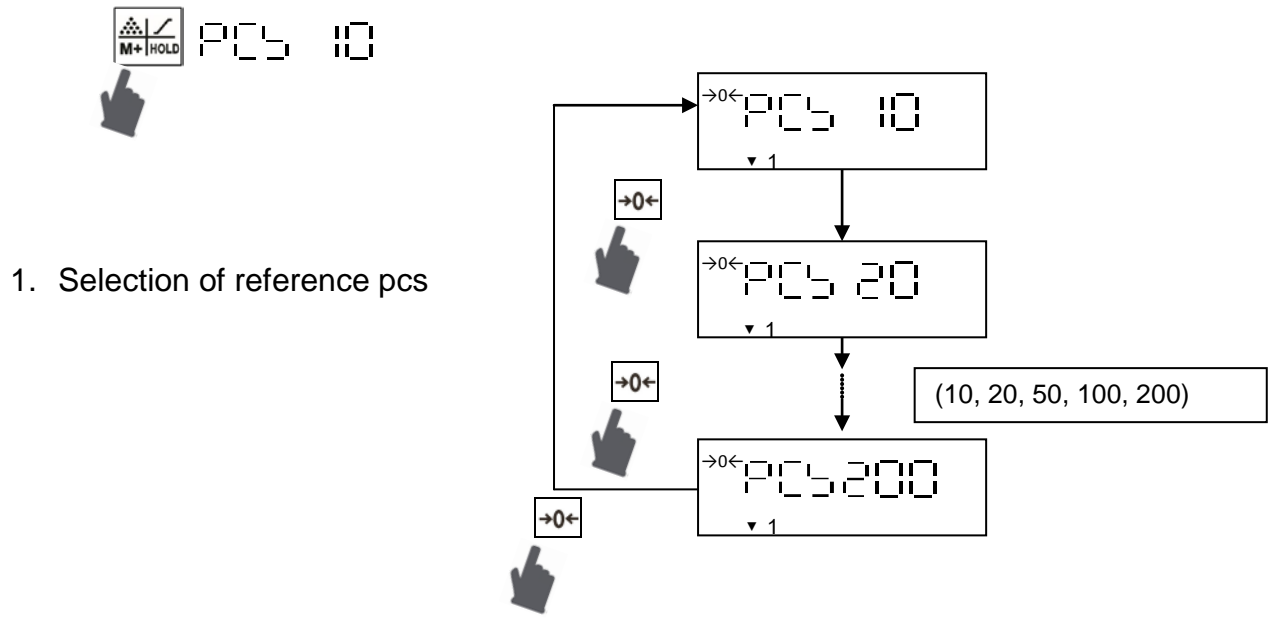
Printout/Dataoutput

Press this key to send out the data on the interface (option) connector or to print it out. The weight value will be accumulated to the addition memory. The symbol ▼ M + is shown in the display.

9 General Functions



9.1 Reference Piece Count Function

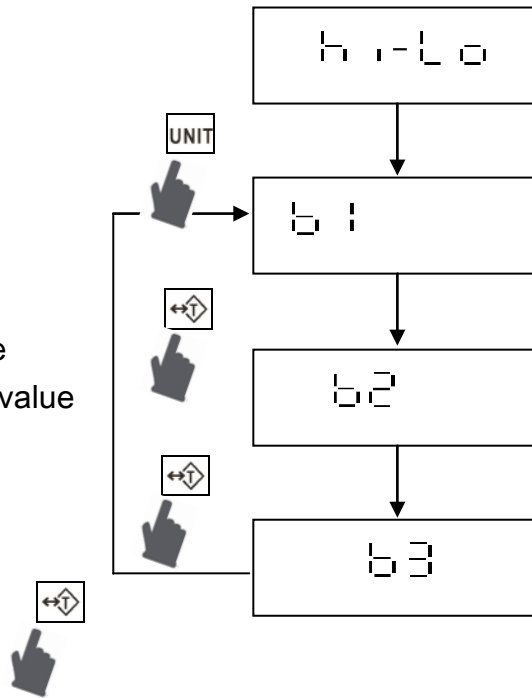


9.2 Target Weight Function



1. Select the signal tone

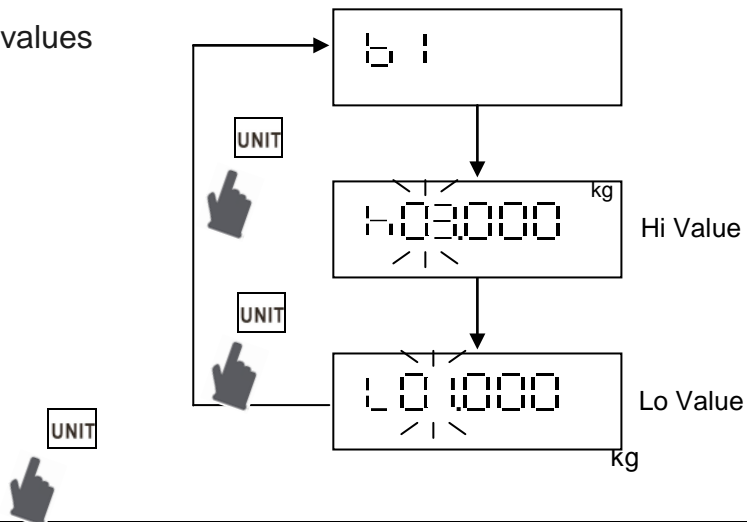
- b 1 ⇒ No signal tone
- b 2 ⇒ Signal inside OK value
- b 3 ⇒ Signal inside HI & LO value



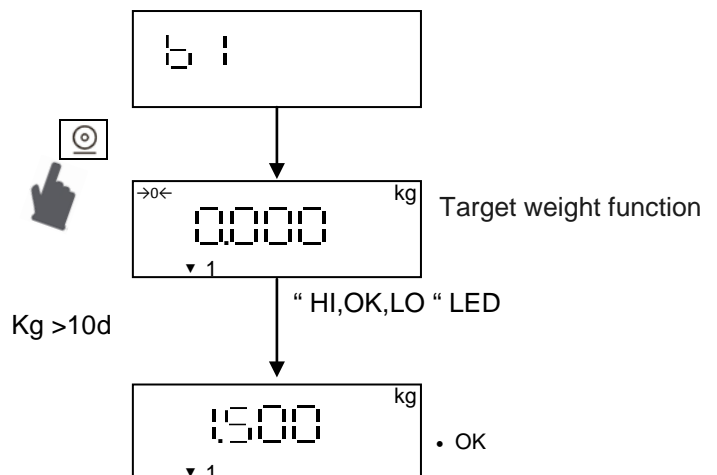
1. Enter the desired values

- ⇒
- ⇒ (0-9)
- ⇒

(Hi = 3.000kg)
(Lo = 1.000kg)

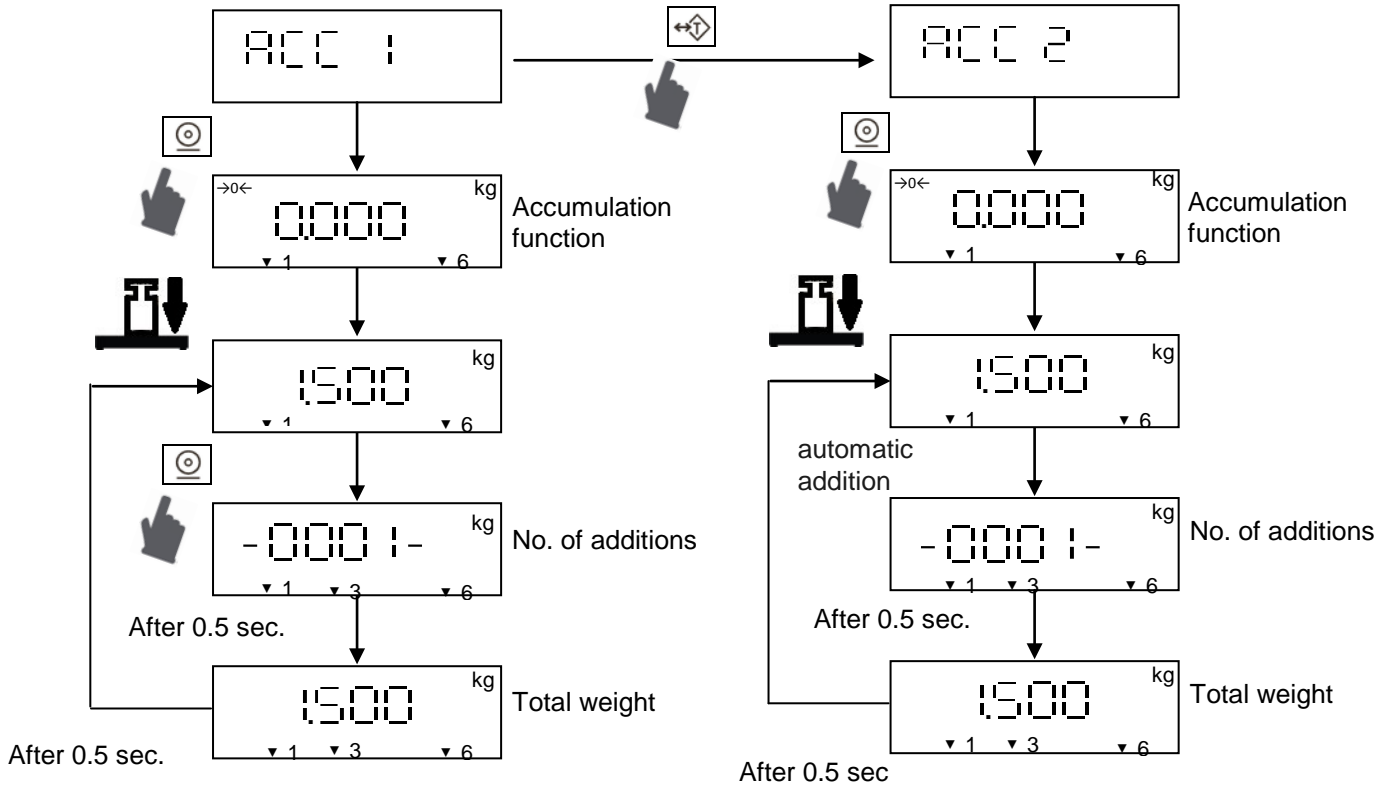



1. Apply your settings start and function.




9.3 Addition Function


1.  ACC 1 & ACC 2



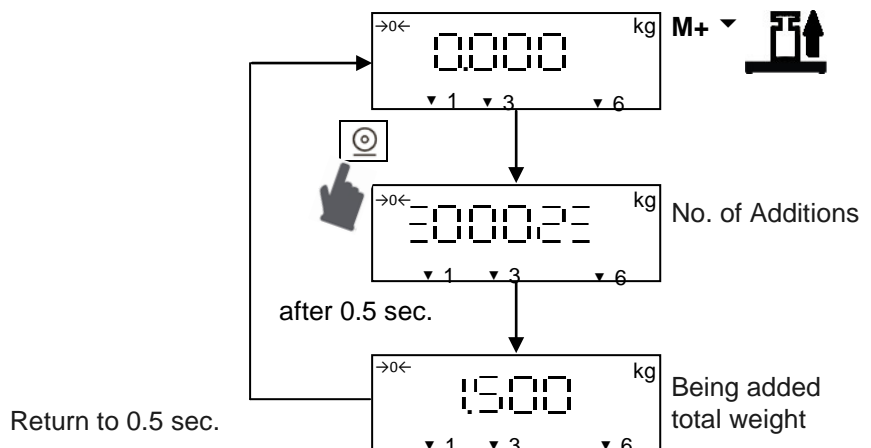
ACC 1 ⇒ Manual Addition: After stability press the  key. The symbol "M +" appears. The number of additions and the total weight is displayed for 0.5 seconds. A new addition is possible after the weight returns to zero.

ACC 2 ⇒ Automatic Addition: After stability automatic addition is executed. The symbol "M +" appears. The number of additions and the total weight is displayed for 0.5 seconds. A new addition is possible after the weight returns to zero.

 The Addition is printed in the `ppp3`, `ppp4` or `ppp5` printformat.

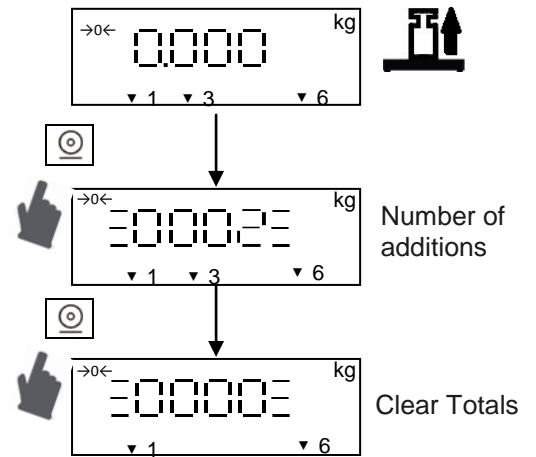
 The smallest possible addition weight is >10 division steps

2. Subtotal



3. Delete addition

- The total weight is printed in 0000 , 0000 or 0000 print format.
- Press $\rightarrow 0 \leftarrow$ Key for 2 seconds. 3 times beep signal sounds. The accumulation data is cleared and RS-232 does not output MC printing format. "M+" icon ∇ goes off.

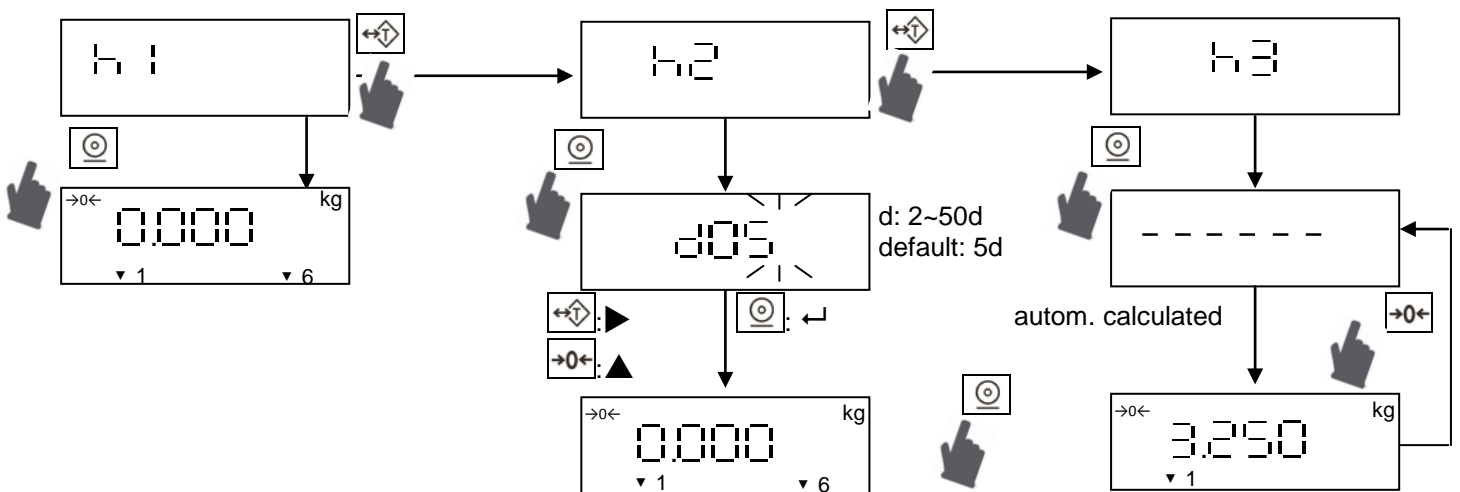
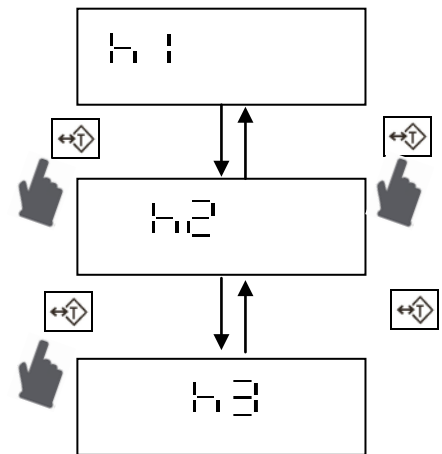


9.4 Hold Function

- $M+ \text{ HOLD}$ h_1, h_2, h_3

- h_1 \Rightarrow Hold function is disabled after the load is taken off and the display 0kg displays.
- h_2 \Rightarrow Hold function is disabled when weight is above / below the selected tolerance of the division d.
- h_3 \Rightarrow Calculation of the average weight. Press to recalculate $\rightarrow 0 \leftarrow$ button.

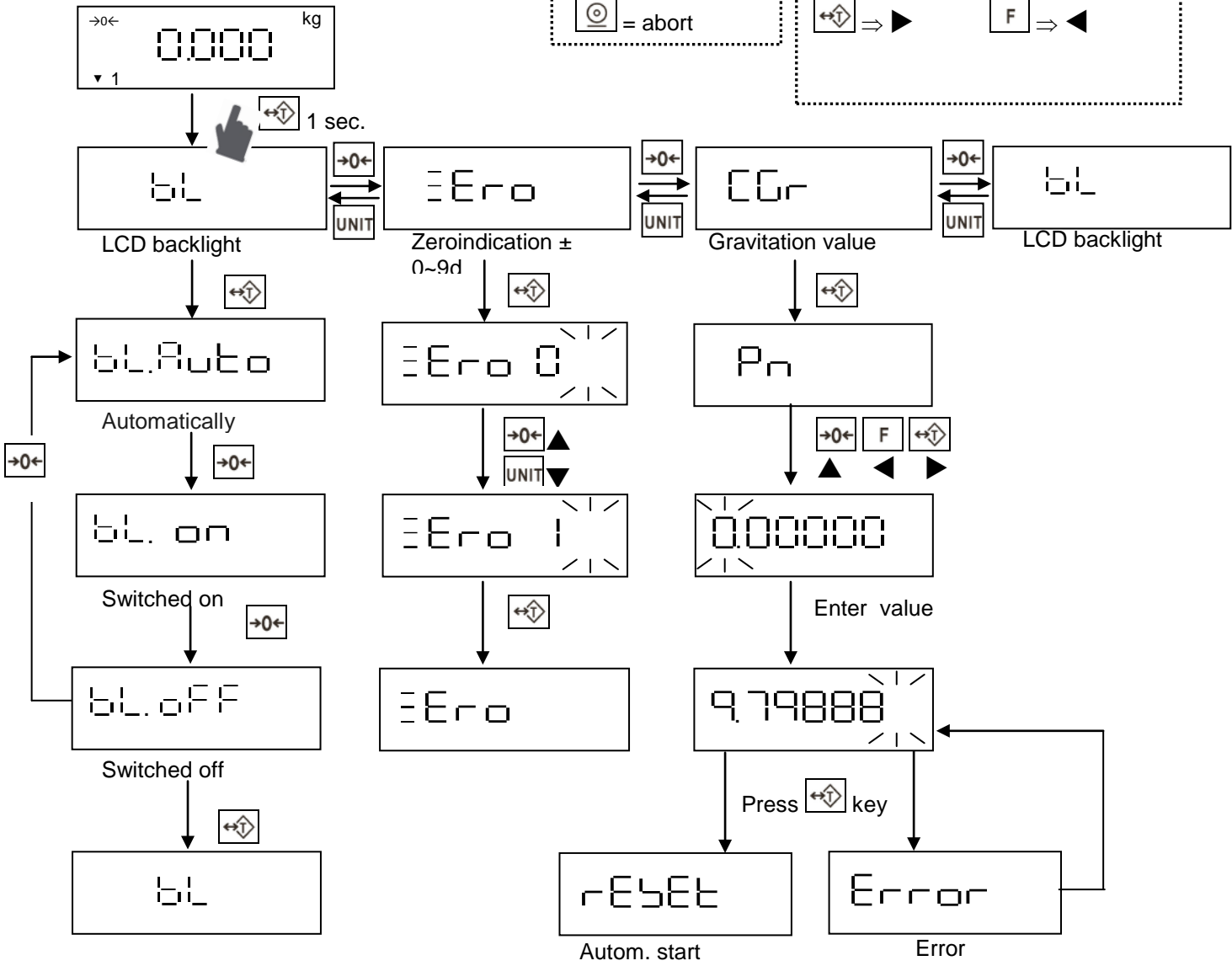
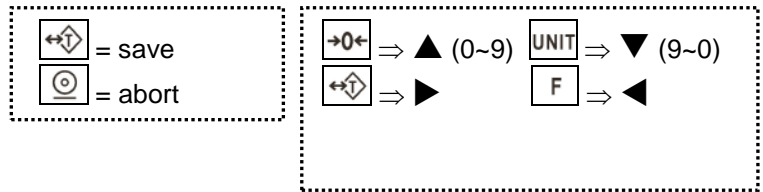
- Beep sounds when hold state is reached.




10 Advanced Features

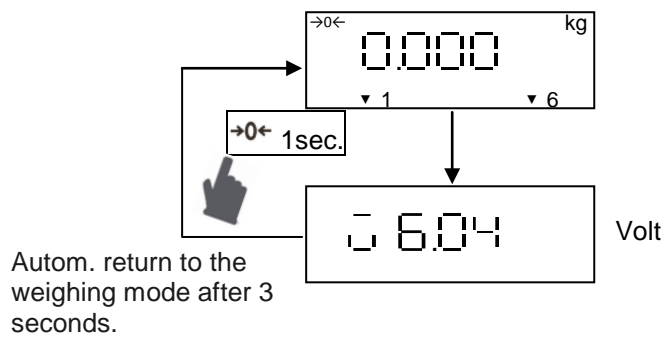
10.1 Backlight / Zero / gravity value

 for 1 sec.



10.2 battery voltage

 For 1 sec.



11 Error messages

E0 ⇒ **System error.** (Contact service)

E1 ⇒ **Zero range is higher than 10% of maximum capacity while switching on the scale.** (example: Scale is loaded while turning on, problem with plugging in, load cell is damaged)

E2 ⇒ **Zero range is lower than 10% of maximum capacity while switching on the scale.** (example: Scale is incorrect sets up, load receptor is not loaded, problem with turning on, load cell is damaged)

E4 ⇒ **Zero value is not stable while switching on the scale.** (example: environment influence, problem with turning on, load cell is damaged)

oF ⇒ **Measuring signal out of range** (eg overload, wrong connection, faulty load cell)

oL ⇒ **Overload** (e.g. : Too much load on the scale)

-oL ⇒ **Insufficient preload** (e.g.: The preload is smaller than -1/6 of Max capacity)

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